MDRECEIVER

KMD-71/870R

SERVICE MANUAL

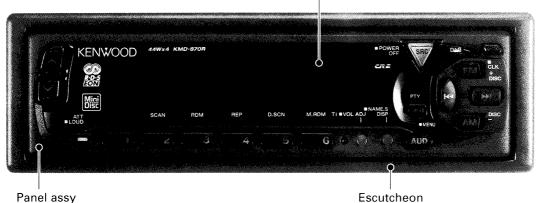
KENWOOD

© 1999-2 PRINTED IN JAPAN B51-7458-00 (N) 3272

• This service manual does not incide information on the MD mechanism assembly (explodedview,parts list, schematic diagram or mechanism description). For such information,refer to the MD mechanism assembly manual (X92-3390-00, 0-01, X92-3560-00, X92-3580-00 : B51-7461-00).

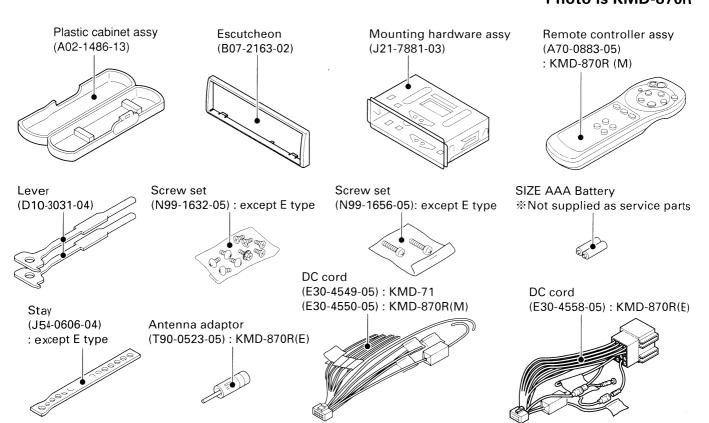
Front glass (B10-2999-01) : KMD-870R (B10-3000-01) : KMD-71

(B07-2163-02)



(A64-1615-02) : KMD-870R (A64-1616-02) : KMD-71

Photo is KMD-870R



CONTENTS

| BLOCK DIAGRAM | 3 |
|---------------------|------------|
| CIRCUIT DESCRIPTION | 4 |
| PC BOARD | 7 |
| SCHEMATIC DIAGRAM | 11 |
| EXPLODED VIEW | 17 |
| PARTS LIST | 19 |
| SPECIFICATIONS | BACK COVER |

BLOCK DIAGRAM -O PRE OUT ANT O SP OUT Α1 Q70-73 BU 14V *P-ANT O-FM +B AM +B FM +B P-CON ()-IC4 AM +B CD/MD CH SMALL IN O-F/E * TEL MUTE ()-VDD SW 5V -POWER IC ACC O-RF +B PLL +B IF1 +B IF2 +B BACK UP O-Q20,27,28 TEL MUTE IC2 DIMMER Q53-56 ACC DET. AUDIO NO CH PRE OUT BU DET. FRONT, REAR FM. AM AUDIO AM LO/DX MD SCL SDA E-VOL Q1,2 IC8,Q40 AM IFOUT BU 5V SCL VDD MUTE S-METER AVR Q19 Q21-26 P-ANT SW 5V P-CON - AUDIO 8V IC6,Q6 * IC13,Q80-82 S 5.0V IC1 NOISE SW-REG FM +B AM +B REQC MUTE OLK DATAH REQH DATAC P-ANT PHONE DIMMER ACC DET. BU DET. SDA SCL P-CON VDD DET. IC3, SDA SDA AM IFOUT SD * IC14 Q3-5 MD +B RDS AUDIO 8V SW 5V DECODER S-METER AVR AM LO/DX P-ON REMO u-com Q7,8,10 * Q31 IC2 ILLUM +B DSI DSI REMOCON L DATAS L CLK L CE L DATAL L INH AVR Q32 IC1 Q1 UP/DOWN D R CLK QUAL R DATA NOISE GUID PAN DET. EJECT ILL ≷ REMO SW BU5V ILLUMI LCD DRIVER RST with Q3-5 ILL ON **KEY MATRIX** DIMMER ILLUM +B **PANEL** UP/DOWN LOE SW EJ LOS SW M STOP M RST A MUTE M SDA M SCL BU 5V DET. Q60 S 5.0V LCD – BU5V PAN AUDIO 8V -PAN 5V MD MECHA DET. **AUDIO** (X25-825x-xx) RDS NOISE UP/DOWN UNIT No LEVEL DIAGRAM MODEL NAME DSI P-ANT TEL MUTE DECODER DET. DET. PRE OUT LEVEL RX-760MD (J) 0-00 NO NO NO YES NO NO 1200mV --- 1149mV 3795mV MD MECHA KMD-71 (K) 0-11 YES NO YES YES NO YEŞ →O 3648mV KMD-870R (M,E) 2-71 YES YES YES NO YES YES 1200mV -- 1149mV 3635mV CD-CH → 3495mV PRE OUT E-VOL **ATT**

→0 1932mV(J,K) 1294mV(E)

→ 613mV(J,K) 971mV(E)

400mV → 800mV

213mV --- 426mV

160mV ----

160mV →

FM

ΑM

2010mV

1346mV

638mV

1010mV

CIRCUIT DESCRIPTION

COMPONENT DESCRIPTION

SWITCH UNIT(X13-9430-12)

| Ref.No. | Component Name | Application/Function | Operation/Condition/Compatibility |
|---------|----------------|-----------------------------|-----------------------------------|
| IC1 | LC75817W | LCD driver with key-matrix | |
| IC2 | RS-171 | Remote control light sensor | |
| Q1 | DTA124EK | Remote sensor power SW | On at base "L" |
| 02 | DTA124EK | key-matrix permission SW | On at base "L" |
| O3 | 2SC2412K | Dimmer SW | On at base "H" |
| Q4 | 2SD2114K | Illumination SW (Green) | On at base "H" |
| Q5 | 2SD2114K | Illumination SW (Amber) | On at base "H" |
| Ω6 | 2SC2412K | LCD AVR | |

ELECTRIC UNIT(X25-825X-XX)

| ELECTRI | C UNIT(X25-825X-XX | () | |
|---------|--------------------|-------------------------------|---|
| Ref.No. | | Application/Function | Operation/Condition/Compatibility |
| IC1 | UPD784215GF536 | System MI-COM. | |
| IC2 | TDA7461ND | E-VOL&NC MAX | |
| IC3 | M5237ML | AVR IC | |
| IC4 | TDA7386 | Power IC | |
| IC6 | LM2575HVS-5.0 | MD SERVO AVR | DC/DC Converter |
| IC7 | PST9130NR | Reset IC | "L":detection voltage below 3.7V |
| IC8 | TC74HC02AF | Mute logic | |
| IC13 | NJM4565M-TE2 | Noise detection amp | |
| IC14 | TDA7479D | RDS decoder | |
| Q1 | 2SC2412K | BLLEV AVD | inverted darlington connection |
| Q2 | 2SB1565F (E,F) | BU 5V AVR | On during BU applied |
| Q3 | DTA124EK | | |
| Q4 | DTC144EK | Audio 8V AVR | inverted darlington connection |
| Q5 | 2SB1565F (E,F) | | AVR on at Q4 base "H" |
| Q6 | DTC144EK | MD SERVO AVR ON/OFF | On at base "H" |
| Q7 | DTC144EK | | |
| Q8 | DTA124EK | IIImination AVR | ON at Q7 base "H" |
| Q10 | 2CD1760 | | |
| Q19 | 2SA1036K | SW 5V | On at base "L" |
| Q20 | DTC144EK | DIMMER SW | On at base "H" while ILLUMINATION applied |
| Q21 | 2SB1277 (Q,R) | D ANT OW | |
| 022 | DTC114YK | P-ANT SW | ON at Q22 base "H" during FM/AM reception |
| Q23 | 2SB1277 (Q,R) | D CON CW | |
| Q26 | DTC114YK | P-CON SW | On at Q7 base"H" |
| Q24 | 2SA1037K | B | |
| Q25 | DTA124EK | Protection for P-CON SW | Activates when the P-CON output voltage drops |
| Q27 | 2SC2412K | BU detection | "H" when momentary power down detected |
| Q28 | 2SC2412K | ACC detection | "H" during ACC off |
| Q31 | 2SC2412K | SDI driver | On at base "H" |
| Q32 | 2SC2412K | Eject illmination driver | On at base "H" |
| Q40 | DTA124EK | Audio mute driver | Mute on at base "L" |
| Q41 | DTC144EK | E-VOL mute SW | Mute on at base "H" |
| Q53-56 | DTC143TK | Audio mute SW | Mute on at base "H" |
| 057 | DTC144EV | CVD CVA | On at base "L" when power on, |
| Q57 | DTC144EK | SVR SW | on at base "H" when momentary power down detected |
| Q60 | 2SA1037K | Panel open/close detection SW | On at base "L" during panel closed |
| Q61 | DTA124EK | CH2 control SW | CH2 on at base "L" |
| Q70 | DTC124EK | EM D OW | |
| Ω71 | 2SB1277 (Q,R) | FM +B SW | On during FM reception |
| Q72 | DTC124EK | ANA D CVA | |
| Q73 | 2SB1277 (Q,R) | AM +B SW | On during AM reception |
| Q75 | 2SC2412K | F/E audio buffer | |
| Q80 | 2SC2412K | Noise buffer | |
| Q81 | DTC114TK | Noise detection | |
| Q82 | DTA124EK | time constant SW | Q81 base "L" during search,"H" during reception |
| | | | |

KMD-71/870R KMD-71/870R

CIRCUIT DESCRIPTION

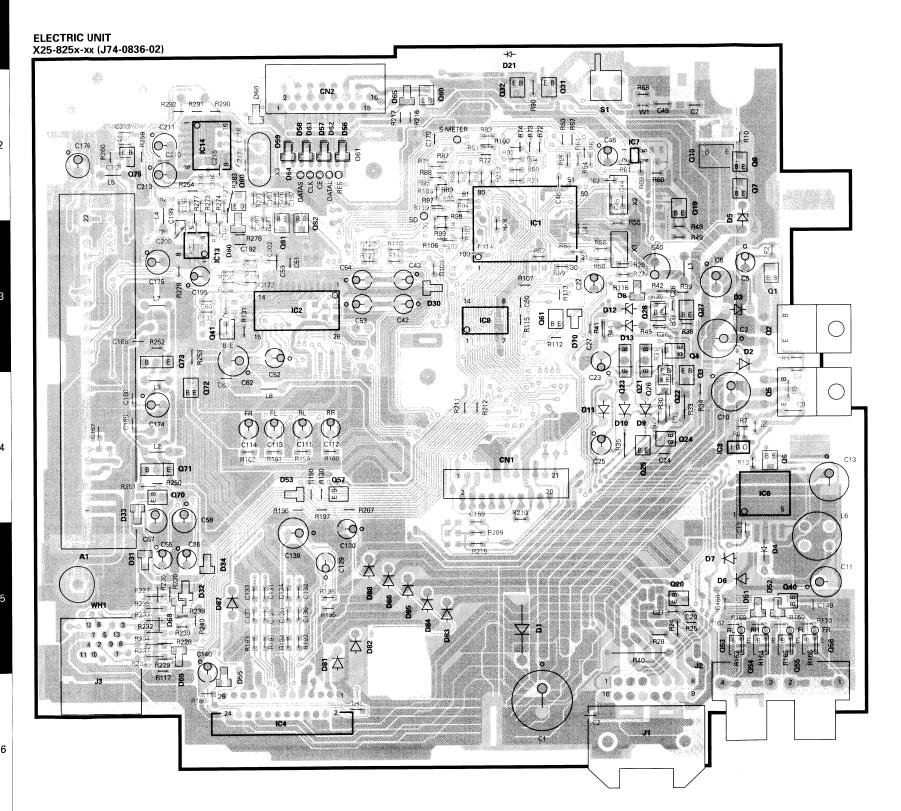
System U-com

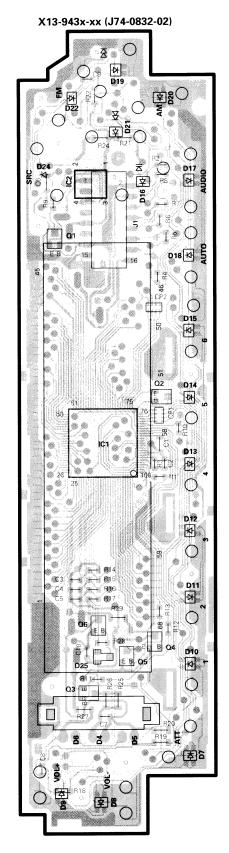
| Pin No. | Pin Name | I/O | Function | Description | Processing Operation |
|---------|---------------|------------|----------|---------------------------------|--|
| 1 | P60/A16 | I | TYPE0 | Destination pin 0 | |
| 2 | P61/A17 | I | TYPE1 | Destination pin 1 | |
| 3 | P62/A18 | 0 | NC | | |
| 4 | P63/A19 | 0 | CH RST | Changer reset output pin | Active: "H" |
| 5 | P64/RD | 0 | NC | | |
| 6 | P65/WR | 0 | NC | | |
| 7 | P66/WAIT | 0 | NC | | |
| 8 | P67/ASTB | 0 | NC | | |
| 9 | Vdd | - | Vdd | Positive power supply pin | |
| 10 | P100/TI5/TO5 | 0 | NC | | |
| 11 | P101/TI6/TO6 | 0 | SVR | Power IC reset pin | Power on: "L", when momentary power down detected: "H" |
| 12 | P102/TI7/TO7 | 0 | NC | | |
| 13 | P103/TI8/TO8 | 0 | P MUTE | Power IC mute pin | Active: "H" |
| 14 | P30/TO0 | 0 | ANT CON | Antenna control pin | Active: "H" |
| 15 | P31/TO1 | 0 | IC2 SCK | IC2,IC5 clock line | . 132701 11 |
| 16 | P32/TO2 | + - | DIMMER | Small detection pin | Active: "L" |
| 17 | P33/TI1 | 0 | P CON | Power control pin | Active: "H" |
| 18 | P34/TI2 | + - | ACC DET | ACC detection pin | ACC off: "H", ACC on: "L" |
| 19 | P35/TI00 | i | REMO | Remote control input pin | Acc oii. 11, Acc oii. L |
| | | ' | | Microprocessor peripheral power | |
| 20 | P36/TI01 | 0 | PON | supply control pin | Active: "H" |
| 21 | P37 | 1 | BU DET | BU detection pin | Mamantani naviar davia IIII |
| 22 | TEST | - | TEST | Test pin | Momentary power down: "H" |
| 23 | P90 | 1/0 | IC2 SDA | IC2,IC5 data line | |
| 24 | P91 | 0 | MUTE | | A -4: 11111 |
| 25 | P92 | 0 | SW5 | Mute pin | Active: "H" |
| 26 | P93 | | M CLK | 5V power supply control pin | Active: "L" |
| 27 | P94 | I/O I/O | M DATA | MD clock line | |
| | 78.000 | | | MD data line | A |
| 28 | P95 | 0 | CHCON2 | Changer 2 control pin | Active: "L" |
| 29 | P120/RTP0 | 0 | CHCON1 | Changer 1 control pin | Active: "H" |
| 30 | P121/RTP1 | 1 | CH MUTE | Changer mute input pin | Mute request: "H" |
| 31 | P122/RTP2 | 0 | REQH | Changer handshake request pin | Active: "L" |
| | P123/RTP3 | 0 | ILL ON | Illumination output pin | Active: "H" |
| | P124/RTP4 | 0 | DSI | DSI output pin | Active: "H" |
| | P125/RTP5 | 0 | NC | | |
| 35 | P126/RTP6 | 0 | NC | | |
| 36 | P127/RTP7 | 0 | MD+B | MD power supply control pin | Active: "H" |
| 37 | Vdd | - | Vdd | Positive power supply pin | |
| | X2 | - | X2 | Main clock connection pin | |
| 39 | X1 | - | X1 | Main clock connection pin | |
| 40 | Vss | - | Vss | GND pin | |
| 41 | XT2 | - | XT2 | Sub clock connection pin | |
| | XT1 | - | XT1 | Sub clock connection pin | |
| 43 | RESET | | RESET | Reset input pin | Active: "L" |
| 44 | P00/INTP0 | 0 | NC | Changer reset output pin | |
| 45 | P01/INTP1 | 1 | R CLK | RDS clock input pin | 7. |
| 46 | P02/INTP2/NMI | T | REQC | Changer handshake request pin | Active: "L" |
| 47 | P03/INTP3 | 1 | EJECT | Eject SW input pin | Active: "L" |
| 48 | P04/INTP4 | 0 | NC | | |
| 49 | P05/INTP5 | 1 | LOS SW | MD insert detection pin | Active: "L" |
| | P06/INTP6 | 0 | NC | • | |

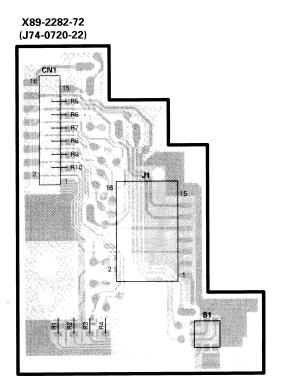
CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Function | Description | Processing Operation |
|---------|----------------|--------------------|----------------|---|---|
| 51 | AVdd | - | AVdd | A/D analog power supply pin | |
| 52 | AVref0 | - | AVref0 | A/D reference voltage input pin | |
| | D10/ANIO | ļ., | BUONE | | 1V or less: PHONE, |
| 53 | P10/ANI0 | | PHONE | PHONE detection pin | 2.5V or greater: NAVI MUTE |
| 54 | P11/ANI1 | ı | NC | | |
| 55 | P12/ANI2 | ı | NOISE | FM noise detection pin | |
| 56 | P13/ANI3 | ı | S METER | FM S meter detection pin | |
| 57 | P14/ANI4 | ı | NC | · | |
| 58 | P15/ANI5 | I | NC | | |
| 59 | P16/ANI6 | ı | OPEN/CLOSE DET | Tilt-able panel detaching detection pin | Panel detached: "H" |
| 60 | P17/ANI7 | 1 | M MUTE | MD mute request pin | Active: "L" |
| 61 | Avss | - | Avss | A/D GND pin | |
| 62 | P130/ANO0 | 0 | NC | | |
| 63 | P131/ANO1 | 0 | M RST | MD reset output pin | Active: "L" |
| 64 | AVref1 | - | AVref1 | D/A reference voltage input pin | |
| 65 | P70/RxD2/SI2 | <u> </u> | DATAC | Data line from changers | |
| 66 | P71/TxD2/SO2 | 0 | DATAH | Data line to changers | |
| 67 | P72/ASCK2/SCK2 | 1/0 | CH CLK | Clock line with changers | |
| 68 | P20/RxD1/SI1 | 1 | L DATAL | Data line from LCD driver | |
| 69 | P21/TxD1/SO1 | 0 | L DATAS | Data line to LCD driver | |
| 70 | P22/ASCK1/SCK1 | 0 | L CLK | Clock line to LCD driver | |
| 71 | P23/PCL | 0 | M STOP | MD stop request output pin | Stop requested: "L" |
| | P24/BUZ | 0 | BEEP | BEEP output pin | Active: "H" |
| | P25/S10/SDA0 | 1/0 | IC3 SDA | Data line with PLL | 7.65.7.6 |
| | P26/SO0 | 0 | NC | | |
| 75 | P27/SCK0/SCL0 | 0 | IC3 SCK | Clock output to PLL | |
| | P80/A0 | ī | LOE SW | MD pack in detection pin | Active: "L" |
| 77 | P81/A1 | 0 | EJECT | MD eject | Active: "H" |
| 78 | P82/A2 | 0 | LOAD | MD loading | Active: "H" |
| _ | P83/A3 | 0 | LINH | Reset output to LCD driver | Active: "L" |
| | P84/A4 | 0 | L CE | CE output to LCD driver | |
| | P85/A5 | 1 | PANEL | Panel tilting detection pin | Panel tilted: "H" |
| | P86/A6 | 0 | EJECT ILL | Eject illmination output pin | Active: "H" |
| 83 | P87/A7 | 0 | NC | | |
| 84 | P40/AD0 | ı | QUAL | RDS receiving condition input pin | |
| | P41/AD1 | 1 | R DATA | RDS data input pin | |
| | P42/AD2 | 0 | NC | Pro-Pro- | |
| | P43/AD3 | 0 | NC | | |
| | P44/AD4 | ı | SD | SD input pin (FM/AM) | Station detected: "H", not detected: "L" |
| 89 | P45/AD5 | I | IF COUNT | AM IF count input pin | Station detected:"H" |
| | P46/AD6 | 0 | NC | | |
| | P47/AD7 | 0 | NC | | |
| - t | P50/A8 | 0 | AFC | Noise detection time constant switching pin | During reception: "H", during search: "L" |
| 93 | P51/A9 | 0 | NC | Street High Print | daming search. |
| | P52/A10 | 0 | NC | | |
| | P53/A11 | 0 | LO/DX | LOCAL output pin | LOCAL:"H",normal: "L" |
| | P54/A12 | 0 | AM+B | AM power supply control pin | During AM reception: "H" |
| | P55/A13 | 0 | FM+B | FM power supply control pin | During FM reception: "H" |
| | P56/A14 | ī | ST TYPE0 | IC2 Ver.2 destination type pin 0 | Initial value: "L" |
| 98 | | | | TINE VOLE USSILIBURULIVOS DIO U | |
| | P57/A15 | - i - | ST TYPE1 | IC2 Ver.2 destination type pin 1 | Initial value: "L" |

PC BOARD (COMPONENT SIDE VIEW)





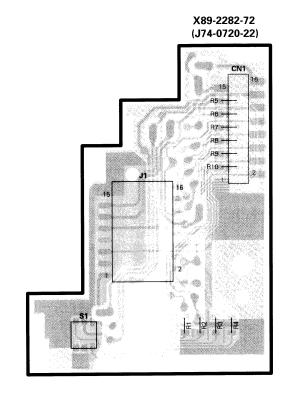


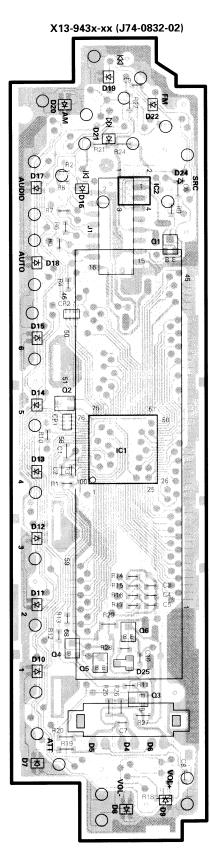
| IC | Q | address |
|----|---|---------|
| 1 | | 4G |
| 2 | | 2G |
| | 1 | 3G |
| | 2 | 4H |
| | 3 | 6G |
| | 4 | 5H |
| | 5 | 6G |
| | 6 | 5G |

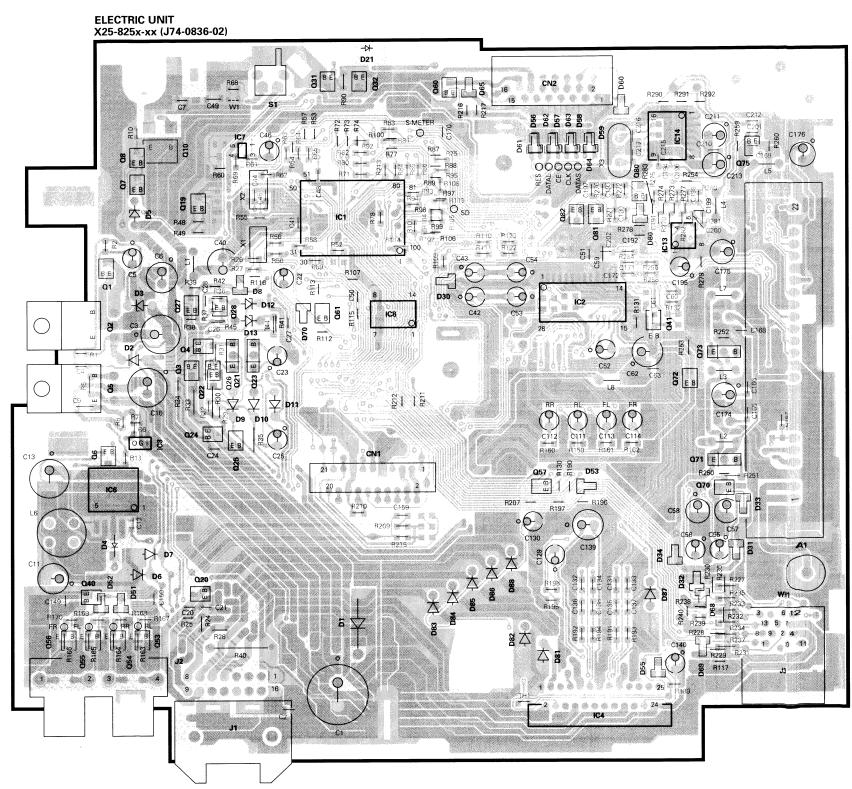
X13-9430-12

| IC | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 13 | 14 | | | | | | | | | | |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| address | 3D | 3C | 4E | 6B | 4F | 2E | 3D | 3B | 2B | | | | | | | | | | |
| Q | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| address | 3F | 3F | 4E | 3E | 4F | 4F | 2F | 2F | 2E | 2E | 5E | 4E | 4E | 4E | 4E | 4E | 4E | 3E | 3E |
| | 31 | 32 | 40 | 41 | 53 | 54 | 55 | 56 | 57 | 60 | 61 | 70 | 71 | 72 | 73 | 75 | 80 | 81 | 82 |
| | 2D | 2D | 5F | 3B | 5E | 5F | 5F | 5F | 4C | 2D | 3D | 4B | 4B | 4B | 3B | 2A | 2B | 3B | 3C |

PC BOARD (FOIL SIDE VIEW)





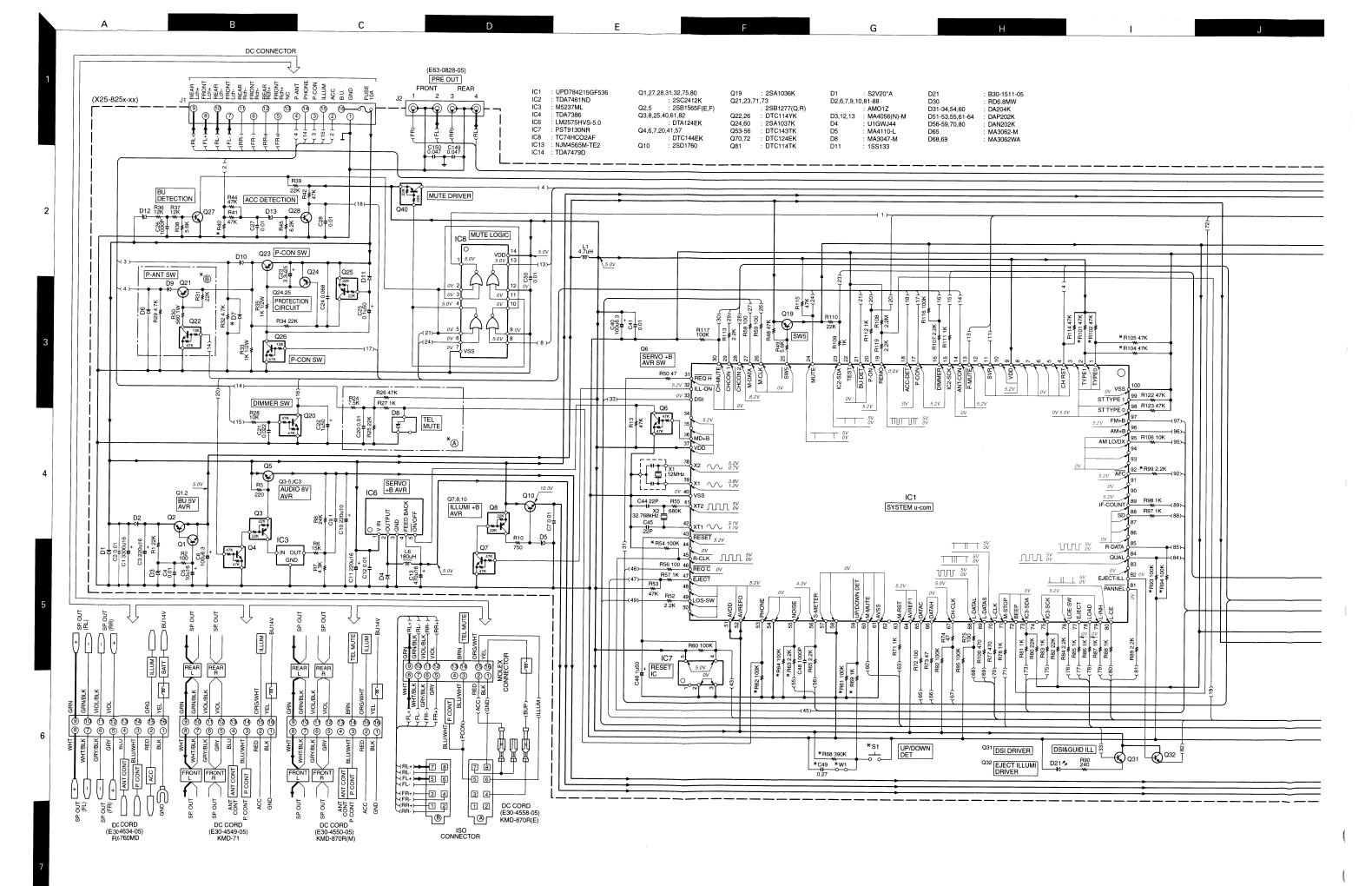


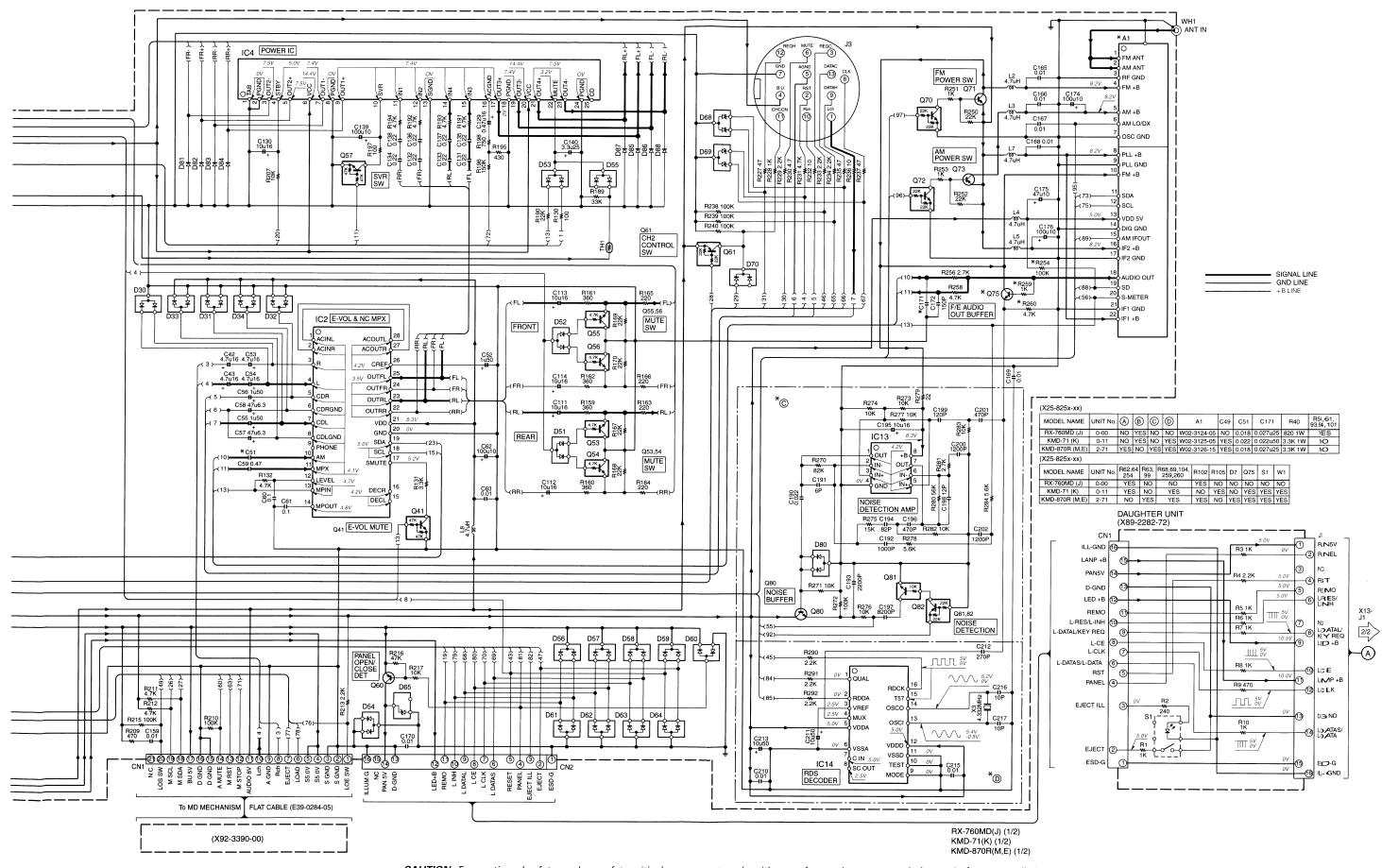
Q

| X13-9 | 430- | 12 | |
|-------|------|---------|--|
| IC | α | address | |
| 1 | | 4N | |
| 2 | | 2N | |
| | 1 | 3N | |
| | 2 | 4M | |
| | 3 | 6N | |
| | 4 | 5M | |
| | 5 | 5N | |
| | 6 | 5N | |

| X25-825X- | ·XX | | | | | | | | | | | | | | | | _ | | |
|-----------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|----|----|
| IC | 1 | 2 | 3 | 4 | 6 | 7 | 8 | | | | | | | | | | | | |
| address | 3Q | 3R | 4P | 6S | 40 | 2P | 3Q | | | | | | | | | | | | |
| Q | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| address | 30 | 30 | 4P | 3P | 40 | 40 | 20 | 20 | 2P | 2P | 5P | 4P | 4P | 4P | 4P | 4P | 4P*_ | 3P | 3P |
| | 31 | 32 | 40 | 41 | 53 | 54 | 55 | 56 | 57 | 60 | 61 | 70 | 71 | 72 | 73 | 75 | B O | 81 | 82 |
| | 2Q | 2Q | 50 | 3S | 5P | 50 | 50 | 50 | 4R | 2Q | 2Q | 4S | 4S | 4S | 4S | 2T | 25 | 3S | 3R |
| | | | | | | | | | | | | | | | | | ت | | _ |

О





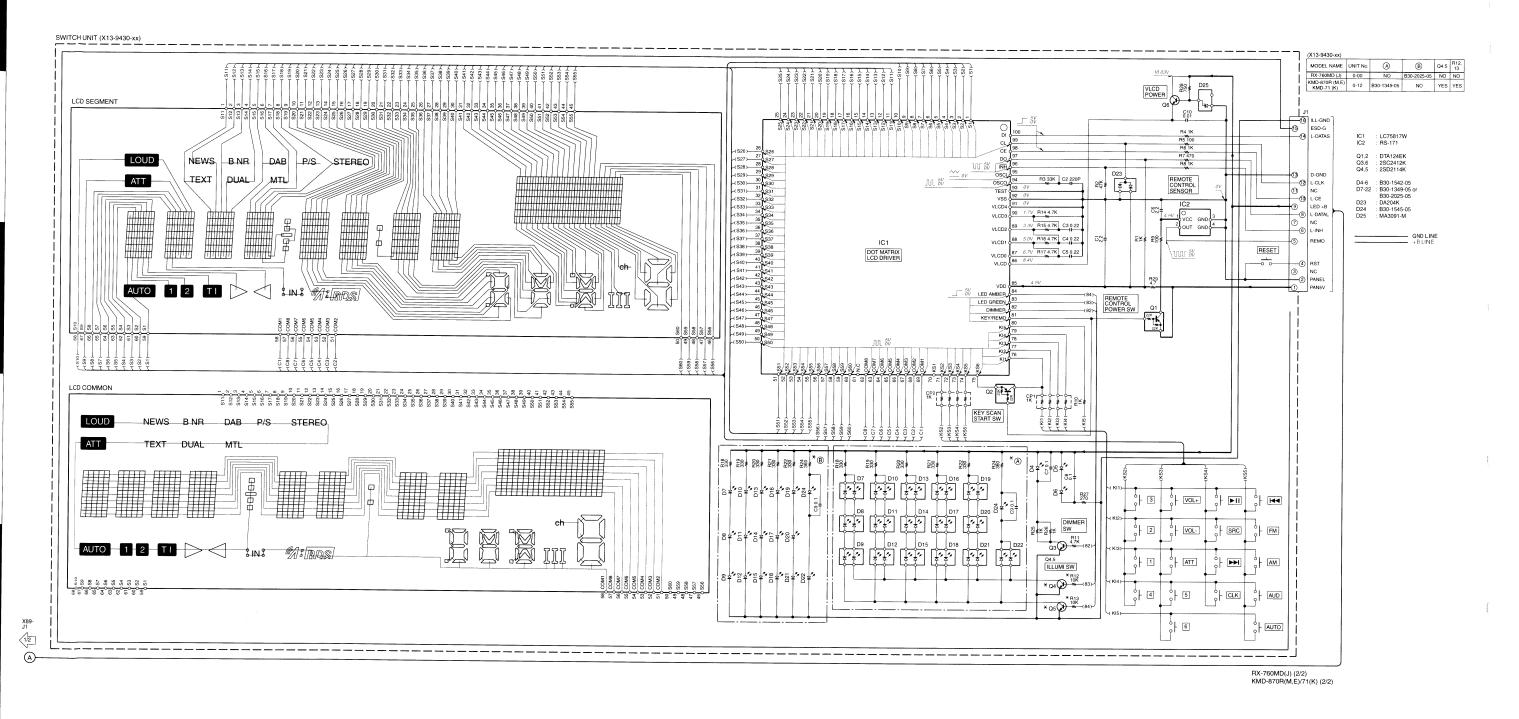
0

Κ

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KENWOOD



DTA124EK DTC144EK DTC114TK 2SA1036K DTC114YK 2SC2412K DTC124EK 2SD2114K DTC143TK







2SA1037K



NJM4565M-TE2

DAN202K



DA204K



TC74HC02AF



PST9130NR



M5237ML

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measure ments shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations be tween individual instruments or/and units.

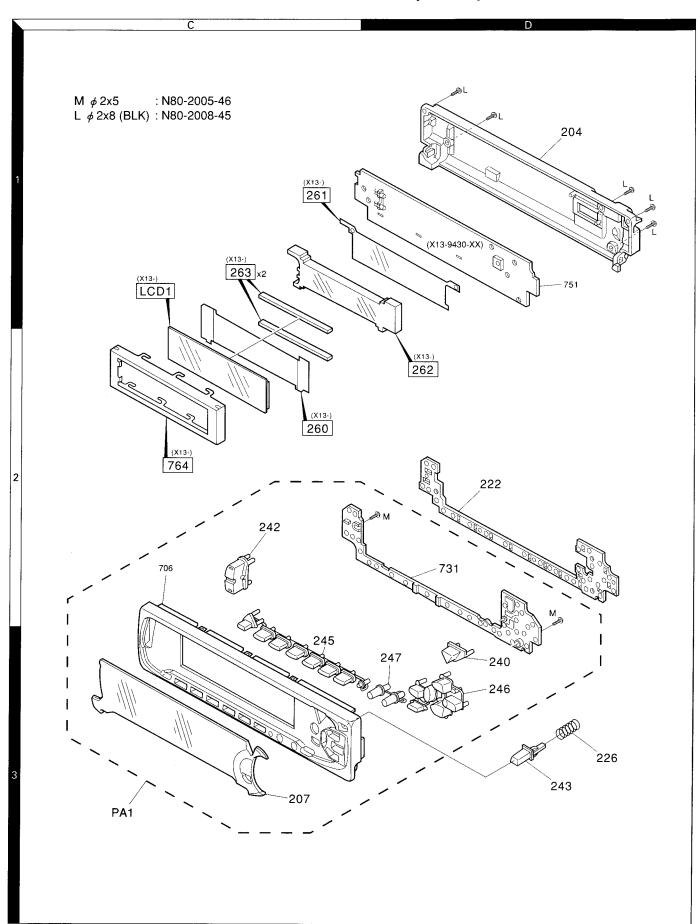


EXPLODED VIEW (UNIT)

(X25-825-x-xx) (X25-) CN2 : N83-3005-46 : N80-3008-46 φ3x5 φ3x8 φ 2.6x6(BLK) : N84-2606-45 φ 3x20 φ 2.6X6 : N83-3020-46 : N84-2606-46 M2x3 : N30-2003-46 : N38-2022-46 : N64-3010-46 G M2x2.2 H M3x10 J E-RING : N24-3020-46 K WASHER : N19-2106-04 N φ 2.6x6 : N83-2606-46 P M3x4 : N30-3004-46 Q E-RING : N09-0205-04 See the following page **Depends on the model.Refer to the parts list.

KMD-71/870R KMD-71/870R

EXPLODED VIEW (UNIT)



17

KMD-71/870R KMD-71/870R

Parts without Parts No. are not supplied.

Teile ohne Parts No. werden nicht geliefert.

* New Parts

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

* New Parts

Parts without Parts No. are not supplied.

Teile ohne Parts No. werden nicht geliefert.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

KMD-71, KMD-870R

SWITCH UNIT (X13-9430-12)

| Ref. No. | d d | N e w | Parts No. | Description | Dest inati on | Ref. No. | d d | N e w | Parts No. | Description | Dest inati on |
|------------|----------|-------------|----------------------------|---|---------------------|--------------|----------|-------------|----------------------------|---|---------------------|
| | | - | KMD-71, F | (MD-870R | | - | | * | H54-1300-13 | ITEM CARTON CASE | E1 |
| 201 | 1 1 1 | | | | | - | | * | H54-1301-13 | ITEM CARTON CASE | M1 |
| 201 203 | 1A 2A | * | A02-1486-13 A22-2308-22 | PLASTIC CABINET ASSY SUB PANEL ASSY | | - | | * | H54-1302-13 | ITEM CARTON CASE | K1 |
| 204 | 1D | | A46-1601-11 | REAR COVER | | 232 | зА | | J21-7817-14 | MOUNTING HARDWARE ASSY | |
| 205 | 1B | * | A52-0724-32 | TOP PLATE | | 237 | 1A | | J21-7881-03 | MOUNTING HARDWARE ASSY | |
| CL1 | 3A | * | A53-1665-03 | CASSETTE LID | | 238 | 1A | i | J54-0606-04 | STAY | M1K1 |
| PA1 | 3C | * | A64-1615-02 | PANEL ASSY | E1M1 | 240 | 3D | | K24-1921-04 | KNOB(SRC) | |
| PA1 | 3C | * | A64-1616-02 | PANEL ASSY | K1 | 242 | 2C | | K24-1922-03 | KNOB(VOL) | |
| RC1 | 1A | | A70-0883-05 | REMOTE CONTROLLER ASSY | ′ M1 | 243 | 3D | | K24-1923-14 | KNOB(RELEASE) | |
| 206 | 1A | | B07 0160 00 | FECUTOUFON | | 244 | 3A | | K24-1947-14 | KNOB(EJECT) | |
| 207 | 3C | * | B07-2163-02 B10-2999-01 | ESCUTCHEON FRONT GLASS | E1M1 | 245 | 3C | ĺ | K25-0960-03 | KNOB(ATT,P1-6) | İ |
| 207 | 3C | * | B10-3000-01 | FRONT GLASS | K1 | 246 | 3D | | K25-0961-02 | KNOB(FM,AM,UP,DWN,PLY/PAU,AUD) | |
| - | | | B46-0100-50 | WARRANTY CARD |]``` | 247 | 3D | | K25-0962-04 | KNOB(AUTO/TI,DISP) | - |
| - | İ | | B46-0172-13 | QUESTIONAIRE CARD | K1 | | | | | | İ |
| | | | D40 0400 44 | ID CARD | | 249 | 1A | | N99-1632-05 | SCREW SET | M1K1 |
| - | | | B46-0182-14 B46-0606-04 | ID CARD ID CARD | E1 M1K1 | 250 A | 1A 1B | | N99-1656-05 | SCREW SET | M1K1 |
| - | 1 | | B58-1319-04 | CAUTION CARD | E1 | Ĉ | 3A | | N83-3005-46 N84-2606-45 | PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW | İ |
| - | | * | B64-1305-00 | INST.MANUAL(ENG,FRE) | Εi | Ĕ | 2A | | N84-2606-46 | PAN HEAD TAPTITE SCREW | |
| - | | * | B64-1306-00 | INST.MANUAL(GER,DUT) | E1 | | | | | THE SOMEW | |
| | | ١. | Do. 1007.00 | | 1_ | F | 3A | | N30-2003-46 | PAN HEAD MACHINE SCREW | ĺ |
| _ | | * | B64-1307-00 B64-1308-00 | INST.MANUAL(ITA,SPA) INST.MANUAL(PORTUGUESE) | E1 | G J | 2A | | N38-2022-46 | PAN HEAD MACHIN SCREW | |
| - | | * | B64-1309-00 | INST.MANUAL(FORTUGUESE) | M1 | ľĸ | 3A 3A | Į | N24-3020-46 N19-2106-04 | E TYPE RETAINING RING(271) | |
| - | | * | B64-1310-00 | INST.MANUAL(ENG,FRE) | K1 | li` | 1D | | N80-2008-45 | FLAT WASHER PAN HEAD TAPTITE SCREW | İ, |
| - | | * | B64-1311-00 | INST.MANUAL(SPA,POR) | K1 | | - | | 1100 2000 40 | ANTICAD TAI THE SCREW | |
| | | | | 1 | | М | 2D | l | N80-2005-46 | PAN HEAD TAPTITE SCREW | |
| 209 210 | 1A 3A | | D10-3031-04 D10-4141-04 | LEVER | | P | 2A | | N30-3004-46 | PAN HEAD MACHINE SCREW | |
| 211 | 3A | | D10-4141-04 | LEVER LEVER | | Q | 3A | | N29-0205-04 | RETAINING RING (1.5マル) | |
| 212 | 3A | | D10-4143-14 | LEVER | | 248 | 1A | | T90-0523-05 | ANTENNA ADAPTOR | E1 |
| 213 | 2A | | D10-4144-13 | LEVER | 1 | 1 | | | 100 0020 00 | ANTENNA ADAFTOR | -1 |
| 214 | за | | D10-4303-03 | LEVER | | ME1 | 2A | | X92-3390-00 | MECHANISM ASSY | |
| 215 | 3A | | D10-4304-03 | LEVER | 1 | 1 | | | SWITCH UNIT | (X13-9430-12) | |
| 216 | ЗА | | D13-1352-04 | GEAR | | 260 | 2C | | B11-0978-04 | OPTICAL DIFFUSER | |
| 217 | ЗА | | D21-2272-04 | SHAFT | | 261 | 1C | | B11-0981-04 | REFLECTION SHEET | |
| 218 | ЗА | | D21-2273-04 | SHAFT | | 262 D4 -6 | 2D | | B19-1163-23 | LIGHTING BOARD | |
| 219 | за | | D21-2299-04 | SHAFT | | D7 -22 | | | B30-1542-05 B30-1349-05 | LED LED | |
| 220 | 3A | | D39-0237-05 | DAMPER | | J | | İ | D30-1349-03 | LED | |
| | | | | | ! I | D24 | | | B30-1545-05 | LED(BLUE) | |
| 222 DC1 | 2D | | E29-1570-02 E30-4549-05 | CONDUCTIVE RUBBER DC CORD | 124 | LCD1 | 1C | ı | B38-1007-05 | LIQUID CRYSTAL | 1 |
| DC1 | 1A | | E30-4549-05 | | K1 M1 | C1 | | | CK73EB1C225K | CHIP C 2.2UF K | |
| DC2 | 1A | | E30-4558-05 | | E1 | C2 | | | CK73EB1C225K | CHIP C 2.2UF K CHIP C 220PF K | |
| FC1 | 2A | * | E39-0284-05 | FLAT CABLE | | C3 -5 | | | CK73FB1C224K | CHIP C 0.22UF K | ľ |
| | | | | | | C6 | | ļ | CK73EB1C225K | CHIP C 2.2UF K | |
| F1 | 2B | | F52-0006-05 | FUSE(MINI BLADE TYPE)(10A) | - 1 | C7 -9 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| 224 | ЗВ | | G01-2856-24 | EXTENSION SPRING | | C10 | | | CK73FB1H103K | CHIP C 0.010UF K | j |
| 225 | ЗА | | G01-2926-14 | TORSION COIL SPRING | ŀ | | | - 1 | | | I |
| 226 227 | 3D | | G01-2921-04 | COMPRESSION SPRING | - 1 | | 1C | | E29-1543-04 | CONDUCTIVE RUBBER | - 1 |
| 228 | 3A 3A | | G02-1257-14 G01-2923-04 | FLAT SPRING TORSION COIL SPRING | | J1 | | - | E59-0829-05 | RECTANGULAR PLUG | - 1 |
| | ا | | 331 EUEU UT | TOTAL OF THING | ł | CP1 ,2 | | | R90-0724-05 | MULTI-COMP 1K X4 | |
| 229 | 38 | | G02-1259-14 | FLAT SPRING | | R1 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| | | | | | - 1 | R2 | | 1 | RK73FB2A473J | CHIP R 47K J 1/10W | |
| • | | | H10-4660-02 | POLYSTYRENE FOAMED FIXTURE | | R3 | | | RK73FB2A333J | CHIP R 33K J 1/10W | |
| | | - 1 | H25-0329-04 H25-0337-04 | PROTECTION BAG (280X450X0.03) PROTECTION BAG (180X300X0.03) | MIK1 | R4 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| | | | H25-0337-04 H25-1111-04 | PROTECTION BAG (180X300X0.03) | _{E1} | R5 | - | ١, | RK73FB2A101J | CHIP R 100 J 1/10W | - [|
| | | | | | | | | <u>L</u> | DEATOID | CHIP R 100 J 1/10W | |

PARTS LIST

K1: KMD-71 **M1**: KMD-870R **E1**: KMD-870R

SWITCH UNIT (X13-9430-12)

ELECTRIC UNIT (X25-825X-XX)

| Ref. No. | A d d | N e w | Parts No. | Descrip | tion | Dest inati on | | Ref. No. | A d d | N e w | Parts No. | ı | Descripti | on | Dest inati on |
|---|-------------|-------------|--|---|---|---------------------|---|---|-------------|-------------|---|---|---|------------------------------------|--------------------------------------|
| R6 R7 R8 R9 R10 | | | RK73FB2A102J RK73FB2A471J RK73FB2A102J RK73FB2A101J RK73FB2A102J | CHIP R 1.0K CHIP R 470 CHIP R 1.0K CHIP R 100 CHIP R 1.0K | J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W | | | C52 C53 ,54 C55 ,56 C57 ,58 C59 | | | C90-2608-05 C90-2595-05 C90-2608-05 CE04DW0J470M CK73EB1C474K | ELECTRO ELECTRO ELECTRO CHIP C | 4.7UF 1.0UF | 50WV 16WV 50WV 6.3WV K | |
| R11 R12 ,13 R14 -17 R18 -22 R24 | | | RK73FB2A472J RK73FB2A103J RK73FB2A472J RK73EB2B331J RK73EB2B361J | CHIP R 4.7K CHIP R 10K CHIP R 4.7K CHIP R 330 CHIP R 360 | J 1/10W J 1/10W J 1/10W J 1/8W J 1/8W | | | C60 ,61 ,C62 ,C63 ,C111-114 ,C129 | | | CK73FB1C104K CE04CW1A101M CK73FB1H103K C90-2597-05 C90-2934-05 | CHIP C ELECTRO CHIP C ELECTRO ELECTRO | 0.010UF 10UF | K 10WV K 16WV 50WV | |
| R25 ,26 R27 R28 R29 | | | RK73EB2B102J RK73EB2B271J RK73FB2A751J RK73EB2B4R7J | CHIP R 1.0K CHIP R 270 CHIP R 750 CHIP R 4.7 | J 1/8W J 1/8W J 1/10W J 1/8W | | | C130 C131-138 C139 C140 C149,150 | | | C90-2597-05 CK73FB1C224K CE04CW1A101M C90-2598-05 CK73FB1E473KTA | ELECTRO CHIP C ELECTRO ELECTRO CHIP C | 0.22UF 100UF | 16WV K 10WV 25WV K | |
| D23 D25 IC1 IC2 Q1 ,2 | | | DA204K MA3091-M LC75817W RS-171 DTA124EK | DIODE ZENER DIODE MOS-IC ANALOGUE IC DIGITAL TRANSIS | TOR | | | C159 C165-170 C171 C171 C172 | | | CK73FB1H103K CK73FB1H103K CK73FB1E273KTA CK73FB1H223KTA CC73FCH1H151J | CHIP C CHIP C CHIP C CHIP C CHIP C | 0.010UF 0.010UF 0.027UF 0.022UF 150PF | K | E1M1 K1 |
| Q3 Q4 ,5 Q6 | | | 2SC2412K 2SD2114K 2SC2412K | TRANSISTOR TRANSISTOR TRANSISTOR | | | | C174 C175 | | | CE04DW1A101M CE04DW1A470M | ELECTRO ELECTRO | 100UF 47UF | 10WV 10WV | |
| | | Е | LECTRIC UNIT | (X25-825X-XX) | | | 1 | C176 C190 | | | CE04DW1A101M CK73FB1H223KTA | ELECTRO CHIP C | 100UF 0.022UF | 10WV K | E1M1 |
| D21 | | | B30-1511-05 | LED | | | | C191 | | | CC73FCH1H060D | CHIP C | 6.0PF | D | E1M1 |
| C1 C2 C3 C4 C5 | | | C90-5236-05 CK73FB1H103K C90-2926-05 CK73FB1H103K C90-2597-05 | ELECTRO 3300UI CHIP C 0.010U ELECTRO 220UF CHIP C 0.010U ELECTRO 10UF | F K 16WV | | | C192 C193 C194 C195 C196 | | | CK73FB1H102K CK73FB1H222K CC73FCH1H820J C90-2597-05 CC73FCH1H471J | CHIP C CHIP C CHIP C ELECTRO CHIP C | 1000PF 2200PF 82PF 10UF 470PF | K K J 16WV J | E1M1 E1M1 E1M1 E1M1 E1M1 |
| C6 C7 C9 C10 C11 | | | CE04CW0J101M CK73FB1H103K CK73EB1C105K CE04CW1A221M C90-2980-05 | ELECTRO 100UF CHIP C 0.010U CHIP C 1.0UF ELECTRO 220UF ELECTRO 220UF | 6.3WV F K K 10WV 16WV | | | C197 C198 C199 C200 C201 | | | CK73FB1H822K CC73FCH1H120J CC73FCH1H121J CK73FB1H122K CC73FCH1H471J | CHIP C CHIP C CHIP C CHIP C CHIP C | 8200PF 12PF 120PF 1200PF 470PF | K J K J | E1M1 E1M1 E1M1 E1M1 E1M1 |
| C12 C13 C20 C21 C22 | | 244.2 | CK73FB1H103K C90-2987-05 CK73FB1H103K CK73FB1H223KTA C90-2608-05 | CHIP C 0.010U ELECTRO 470UF CHIP C 0.010U CHIP C 0.022U ELECTRO 1.0UF | 16WV F K | E1M1 | | C202 C210 C211 C212 C213 | | | CK73FB1H122K CK73FB1H103K CE04DW1C100M CC73FCH1H271J CE04DW1C100M | CHIP C CHIP C ELECTRO CHIP C ELECTRO | 1200PF 0.010UF 10UF 270PF 10UF | K K 16WV J 16WV | E1M1 |
| C23 C24 C25 C26 C27 ,28 | | | C90-2598-05 CK73FB1E683KTA C90-2602-05 CK73FB1H102K CK73FB1H103K | ELECTRO 3.3UF CHIP C 0.068U ELECTRO 0.10UF CHIP C 1000PF CHIP C 0.010U | 50WV K | | | C215 C216,217 CN1 CN2 | | | CK73FB1H103K CC73FCH1H100D E40-9287-05 E40-9595-05 | CHIP C CHIP C PIN ASSY PIN ASSY | 0.010UF 10PF | K D | |
| C40 C41 C42 ,43 C44 ,45 C46 | | | CE04CW0J101M CK73FB1H103K C90-2595-05 CC73FCH1H220J C90-2608-05 | ELECTRO 100UF CHIP C 0.010U ELECTRO 4.7UF CHIP C 22PF ELECTRO 1.0UF | 6.3WV F K 16WV J 50WV | | | | | | E58-0836-05 E63-0828-05 E56-0809-05 E30-4440-05 E30-4568-15 | RECTANGU PHONO JA CYLINDRIC CORD WITI CORD WITI | CK SAL RECE H PLUG | | |
| C48 C49 C50 C51 C51 | | | CK73FB1H102K CK73EB1E274K CK73FB1H103K CK73FB1H183KTA CK73FB1H223KTA | CHIP C 1000PF CHIP C 0.27UF CHIP C 0.010UI CHIP C 0.018UI | K K F K F K | E1M1 K1 | | L1 -5 L6 L7 ,8 X1 X2 | | * | L40-4795-91 L33-1121-05 L40-4795-91 L78-0574-05 L78-0533-05 | SMALL FIXED CHOKE CO SMALL FIXED RESONATO | D INDUCTOR IL D INDUCTOR DR (12.1 | ` ' | |

PARTS LIST

 $\underline{\mathbb{A}}$ indicates safety critical components.

K1: KMD-71 **M1**: KMD-870R **E1**: KMD-870R

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

ELECTRIC UNIT (X25-825X-XX)

| Ref. No. | A d d | N e w | Parts No. | | Descripti | on | Dest inati on | Ref. No. | A d d | N e w | Parts No. | | Descrip | tion | | Dest inati on |
|----------|-------------|-------------|--------------|----------|-------------|-----------|---------------------|----------|-------------|-------------|----------------|-----------|---|--------|----------|---------------------|
| Х3 | | | L77-2002-05 | RESONAT | OR (4.3 | 332MHZ) | | R77 | | | RK73FB2A471J | CHIP R | 470 | J 1/10 | w | |
| | | | | | | | | R78 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 |) W | |
| Α | 1B | | N83-3005-46 | PAN HEAD | TAPTITE | SCREW | | R80 | | | RK73FB2A223J | CHIP R | 22K | J 1/10 | w l | |
| В | 1B | | N80-3008-46 | PAN HEAD | TAPTITE | SCREW | | R81 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | w l | |
| lo | 1B | | N83-3020-46 | PAN HEAD | TAPTITE | SCREW | | R82 | | | RK73FB2A223J | CHIP B | 22K | J 1/10 | | |
| н | 1B | | N64-3010-46 | PAN HEAD | | | 1 1 | | | | | | | | | |
| N | 2B | | N83-2606-46 | PAN HEAD | | | | R83 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | w l | |
| l''' | | | | | | | | R84 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | | |
| R1 | | | RK73FB2A223J | CHIP R | 22K | J 1/10W | | R85 -88 | | ĺ | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | | |
| R2 | | | RK73FB2A101J | CHIP R | 100 | J 1/10W | | R89 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | | |
| R5 | | | RK73EB2B221J | CHIP R | 220 | J 1/8W | 1 1 | R90 | | | RK73EB2B241J | CHIP R | 240 | J 1/8V | | |
| R6 | | | RK73FB2A153J | CHIP R | 15K | J 1/10W | 1 | 11100 | | | THEOLOGICAL | 101111111 | 2.70 | 0 1/0, | • | |
| R7 | | | R92-3032-05 | CHIP R | 4.3K | D 1/10W | . | R92 | | | RK73FB2A104J | CHIP R | 100K | J 1/10 | W | |
| [''' | | | 1102 0002 00 | | | 2 1, 1011 | | R95 | | | RK73FB2A104J | CHIP R | 100K | J 1/10 | | |
| R8 | | | R92-3047-05 | CHIP R | 24K | D 1/10W | , | R97 .98 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | 1 | |
| R10 | | | RK73FB2A751J | CHIP R | 750 | J 1/10W | | R99 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | | E1 N/11 |
| R13 | | | RK73FB2A473J | CHIP R | 47K | J 1/10W | | R100 | | l | RK73FB2A223 | CHIP R | 470 | | | E HVIII |
| R24 | | | RK73EB2B752J | CHIP R | 7.5K | J 1/8W | E1M1 | IN100 | | - | nk/3FBZA4/13 | CHIER | 470 | J 1/10 | ,,,, | |
| R25 | | | | CHIP R | 7.5K 22K | J 1/0W | E1M1 | R102 | | | DETOCROAATOL | CLUBB | 471/ | 1 4/40 | | F4 8.44 |
| n23 | | | RK73FB2A223J | CHIPK | 22N | J 1/10VV | E I WIT | | | | RK73FB2A473J | CHIP R | 47K | J 1/10 | | |
| Doc | | | DEZOEDOAAZOL | CUID D | 471/ | 1 4/4004 | | R104 | | | RK73FB2A473J | CHIP R | 47K | J 1/10 | | |
| R26 | | | RK73FB2A473J | CHIP R | 47K | J 1/10W | E1M1 | R104,105 | 1 | | RK73FB2A473J | CHIP R | 47K | J 1/10 | | K1 |
| R27 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10W | E1M1 | R106 | | | RK73FB2A103J | CHIP R | 10K | J 1/10 | | |
| R28 | | | RK73EB2B103J | CHIP R | 10K | J 1/8W | | R107 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | w j | |
| R29 | | | RK73FB2A472J | CHIP R | 4.7K | J 1/10W | K1 | 1 | | | | | | | | |
| R30 | | | R92-0366-05 | CHIP R | 560 | J 1W | K1 | R108 | | | RK73FB2A225J | CHIP R | 2.2M | J 1/10 | | |
| | | | | | | | | R109 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | | |
| R31 | | | RK73EB2B223J | CHIP R | 22K | J 1/8W | K1 | R110 | | | RK73FB2A223J | CHIP R | 22K | J 1/10 | | |
| R32 | | | RK73FB2A472J | CHIP R | 4.7K | J 1/10W | | R111,112 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10 | W | |
| R33 | | | R92-0365-05 | CHIP R | 1.0K | J 1/2W | 1 1 | R113 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | W | |
| R34 | | | RK73FB2A223J | CHIP R | 22K | J 1/10W | 1 1 | | | | | | | | | |
| R35 | | | R92-0365-05 | CHIP R | 1.0K | J 1/2W | | R114,115 | | | RK73FB2A473J | CHIP R | 47K | J 1/10 | W | |
| | | | | | | | | R116,117 | | | RK73FB2A104J | CHIP R | 100K | J 1/10 | W | |
| R36 ,37 | | | RK73FB2A123J | CHIP R | 12K | J 1/10W | | R119 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10 | w l | |
| R38 | | | RK73FB2A562J | CHIP R | 5.6K | J 1/10W | 1 1 | R122,123 | | | RK73FB2A473J | CHIP R | 47K | J 1/10 | W | 1 |
| R39 | | | RK73FB2A223J | CHIP R | 22K | J 1/10W | | R130 | | | RK73FB2A101J | CHIP R | 100 | J 1/10 | W | |
| R40 | | | RS14DB3A332J | FL-PROOF | RS 3.3K | J 1W | 1 1 | | | | | | | | | |
| R41 | | | RK73EB2B473J | CHIP R | 47K | J 1/8W | 1 | R131 | | | RK73FB2A332J | CHIP R | 3.3K | J 1/10 | W | |
| | | | | | | | | R132 | | | RK73FB2A472J | CHIP R | 4.7K | J 1/10 | W | |
| R42 | | | RK73FB2A473J | CHIP R | 47K | J 1/10W | | R159-162 | | | RK73FB2A361J | CHIP R | 360 | J 1/10 | w | |
| R44 | | | RK73EB2B473J | CHIP R | 47K | J 1/8W | | R163-166 | | | RK73EB2B221J | CHIP R | 220 | J 1/8V | v I | |
| R45 | | | RK73FB2A622J | CHIP R | 6.2K | J 1/10W | | R167-170 | 1 | | RK73FB2A223J | CHIP R | 22K | J 1/10 | | |
| R48 | İ | | RK73FB2A473J | CHIP R | 47K | J 1/10W | | | | | | İ | | | | |
| R49 | | | RK73FB2A562J | CHIP R | 5.6K | J 1/10W | | R189 | | | RK73FB2A333J | CHIP R | 33K | J 1/10 | wl | l |
| | | | | | | | | R190 | | | RK73FB2A223J | CHIP R | 22K | J 1/10 | | |
| R50 | | | RK73FB2A470J | CHIP R | 47 | J 1/10W | | R191-194 | | | RK73FB2A472J | CHIP R | 4.7K | J 1/10 | | |
| R52 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10W | | R195 | | | RK73FB2A431J | CHIP R | 430 | J 1/10 | | |
| R53 | | | RK73FB2A473J | CHIP R | 47K | J 1/10W | | R196 | | | RK73FB2A154J | CHIP R | 150K | J 1/10 | | 1 |
| R55 | | | RK73FB2A684J | CHIP R | 680K | J 1/10W | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0 .,.0 | . | |
| R56 | | | RK73FB2A101J | CHIP R | 100 | J 1/10W | | R197 | | | RK73FB2A101J | CHIP R | 100 | J 1/10 | wl | I |
| | | | | | | | | R198 | | | RK73FB2A751J | CHIP R | 750 | J 1/10 | | |
| R57 | | } | RK73FB2A102J | CHIP R | 1.0K | J 1/10W | | R207 | | | RK73FB2A103J | CHIP R | 10K | J 1/10 | - 1 | |
| R58 ,59 | | | RK73FB2A101J | CHIP R | 100 | J 1/10W | | R209 | | | RK73FB2A471J | CHIP R | 470 | J 1/10 | | |
| R60 | | | RK73FB2A104J | CHIP R | 100K | J 1/10W | | R210 | | | RK73FB2A104J | CHIP R | 100K | J 1/10 | | ı |
| R62 | | | RK73FB2A104J | CHIP R | 100K | J 1/10W | K1 | 1.12.10 | | | THO DETTION | 101111 | 1001 | J 1/10 | * ' | 1 |
| R63 | | | RK73FB2A222J | CHIP R | 2.2K | J 1/10W | | R211,212 | | | RK73FB2A472J | CHIP R | 4.7K | J 1/10 | w | - 1 |
| 1103 | - 1 | | THE DETERED | 01111 | 2.21 | 0 171011 | - ''W' | R213 | | | RK73FB2A222J | CHIP R | | J 1/10 | | |
| R64 | | | RK73FB2A104J | CHIP R | 100K | J 1/10W | k1 | R215 | | - 1 | RK73FB2A222J | CHIP R | 2.2K 100K | J 1/10 | | j |
| R65 | | 1 | RK73FB2A222J | CHIP R | 2.2K | J 1/10W | ` | R216 | | | RK73FB2A473J | CHIP R | | | | ľ |
| R68 | | | RK73FB2A222J | CHIP R | 390K | J 1/10W | | R217 | | | | | 47K | J 1/10 | | |
| | | | RK73FB2A394J | CHIP R | | J 1/10W | | J 1741/ | | | RK73FB2A103J | CHIP R | 10K | J 1/10 | ** | |
| R69 | | ĺ | | | 1.0K | | | B227 | | | DIZZEBOD 470 I | CHIER | 47 | | , | |
| R71 | | | RK73FB2A102J | CHIP R | 1.0K | J 1/10W | 1 1 | R227 | | ļ | RK73EB2B470J | CHIP R | 47 | J 1/8V | | i |
| D70 | | | DETOCROSSO | CLUD | 100 | 1 4/40144 | | R228 | | l | RK73EB2B102J | CHIP R | 1.0K | J 1/8V | | l l |
| R72 | - 1 | | RK73FB2A101J | CHIP R | 100 | J 1/10W | | R229 | | | RK73EB2B222J | CHIP R | 2.2K | J 1/8V | | - 1 |
| R73 ,74 | | | RK73FB2A470J | CHIP R | 47 | J 1/10W | | R230 | | | RK73EB2B4R7J | CHIP R | 4.7 | J 1/8V | | |
| R75 | | | RK73FB2A101J | CHIP R | 100 | J 1/10W | | R231 | | | RK73EB2B472J | CHIP R | 4.7K | J 1/8V | <u> </u> | I |

K1: KMD-71

M1: KMD-870R

E1: KMD-870R

 \wedge indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

ELECTRIC UNIT (X25-825X-XX)
DAUGHTER UNIT (X89-2282-72)

| Ref. No. | A d | N e w | Parts No. | Description | Dest inati on |
|---|--------|-------------|--|---|--------------------------------------|
| R232 R233,234 R235 R236 R237 | | | RK73EB2B100J RK73EB2B222J RK73EB2B470J RK73EB2B100J RK73EB2B470J | CHIP R 10 J 1/8W CHIP R 2.2K J 1/8W CHIP R 47 J 1/8W CHIP R 10 J 1/8W CHIP R 47 J 1/8W | |
| R238-240 R250 R251 R252 R253 | | | RK73FB2A104J RK73FB2A223J RK73EB2B102J RK73FB2A223J RK73EB2B102J | CHIP R 100K J 1/10W CHIP R 22K J 1/10W CHIP R 1.0K J 1/8W CHIP R 22K J 1/10W CHIP R 1.0K J 1/8W | |
| R254 R256 R258 R259 R260 | | | RK73FB2A104J RK73FB2A272J RK73FB2A472J RK73FB2A102J RK73FB2A472J | CHIP R 100K J 1/10W CHIP R 2.7K J 1/10W CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 4.7K J 1/10W | K1 |
| R270 R271 R272 R273,274 R275 | | | RK73FB2A823J RK73FB2A103J RK73FB2A104J RK73FB2A103J RK73FB2A153J | CHIP R 82K J 1/10W CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 15K J 1/10W | |
| R276,277 R278 R279 R280 R281 | | | RK73FB2A103J RK73FB2A562J RK73FB2A220J RK73FB2A563J RK73FB2A272J | CHIP R 10K J 1/10W CHIP R 5.6K J 1/10W CHIP R 22 J 1/10W CHIP R 56K J 1/10W CHIP R 2.7K J 1/10W | E1M1 E1M1 E1M1 E1M1 E1M1 |
| R282,283 R284 R290-292 W1 | | | RK73FB2A103J RK73FB2A562J RK73FB2A222J R92-2052-05 | CHIP R 10K J 1/10W CHIP R 5.6K J 1/10W CHIP R 2.2K J 1/10W CHIP R 0 J 1/10W | E1M1 E1M1 |
| S1 | | | S74-0808-05 | MICRO SWITCH | |
| D1 D2 D3 D4 D5 | | | S2V20*A AM01Z MA4056(N)-M U1GWJ44 MA4110-L | DIODE DIODE ZENER DIODE DIODE ZENER DIODE | |
| D6 D7 D8 D9 ,10 D10 | | | AM01Z AM01Z MA3047-M AM01Z AM01Z | DIODE DIODE ZENER DIODE DIODE DIODE | K1 E1M1 E1M1 K1 E1M1 |
| D11 D12 ,13 D30 D31 -34 D51 -53 | | | 1SS133 MA4056(N)-M RD6.8MW DA204K DAP202K | DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE | |
| D54 D55 D56 -59 D60 D61 -64 | | | DA204K DAP202K DAN202K DA204K DAP202K | DIODE DIODE DIODE DIODE DIODE | |
| D65 D68 ,69 D70 D80 | | | MA3062-M MA3062WA DAN202K DAN202K | ZENER DIODE ZENER DIODE DIODE DIODE | E1M1 |

| | DAUGHTER UNIT (X89-2282-72 | | | | | |
|---|----------------------------|-------------|--|---|---------------------|--|
| Ref. No. | A d | N e w | Parts No. | Description | Dest inati on | |
| D81 -88 IC1 IC2 IC3 IC4 | | * | AM01Z UPD784215GF536 TDA7461ND M5237ML TDA7386 | DIODE MI-COM IC ANALOGUE IC IC(VOLTAGE REGULATOR) ANALOGUE IC | | |
| IC6 IC7 IC8 IC13 IC14 | | | LM2575HVS-5.0 PST9130NR TC74HC02AF NJM4565M-TE2 TDA7479D | ANALOGUE IC ANALOGUE IC IC ANALOGUE IC ANALOGUE IC | E1M1 | |
| Q1 Q2 Q3 Q4 Q5 | | | 2SC2412K 2SB1565F(E,F) DTA124EK DTC144EK 2SB1565F(E,F) | TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR | | |
| Q6 ,7 Q8 Q10 Q19 Q20 | | | DTC144EK DTA124EK 2SD1760 2SA1036K DTC144EK | DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR | | |
| Q21 Q22 Q23 Q24 Q25 | | | 2SB1277(Q,R) DTC114YK 2SB1277(Q,R) 2SA1037K DTA124EK | TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR | K1 K1 | |
| Q26 Q27 ,28 Q31 ,32 Q40 Q41 | | | DTC114YK 2SC2412K 2SC2412K DTA124EK DTC144EK | DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | |
| Q53 -56 Q57 Q60 Q61 Q70 | | | DTC143TK DTC144EK 2SA1037K DTA124EK DTC124EK | DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | |
| Q71 Q72 Q73 Q75 Q80 | | | 2SB1277(Q,R) DTC124EK 2SB1277(Q,R) 2SC2412K 2SC2412K | TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | E1M1 | |
| Q81 Q82 TH1 | | | DTC114TK DTA124EK PT722A80C | DIGITAL TRANSISTOR DIGITAL TRANSISTOR POSITIVE RESISTOR | E1M1 E1M1 | |
| A1 A1 | | | W02-3125-05 W02-3126-15 | FM/AM FRONT-END FM/AM FRONT-END | K1 E1 M 1 | |
| | | D | AUGHTER UNIT | (X89-2282-72) | | |
| CN1 J1 | | | E40-9596-05 E58-0865-05 | SOCKET FOR PIN ASSY RECTANGULAR RECEPTACLE | | |
| R1 R2 R3 R4 R5 -8 | | | RK73EB2B102J RK73EB2B241J RK73EB2B102J RK73EB2B222J RK73EB2B102J | CHIP R 1.0K J 1/8W CHIP R 240 J 1/8W CHIP R 1.0K J 1/8W CHIP R 2.2K J 1/8W CHIP R 1.0K J 1/8W | | |

K1: KMD-71

M1: KMD-870R

E1: KMD-870R

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

DAUGHTER UNIT (X89-2282-72)

| Ref. No. | A d d | N e w | o. werden nicht Parts No. | Descrip | tion | Dest inati on | Ref. No. | d d | N e w | Parts No. | Description | Des inat on |
|-----------|-------------|-------------|------------------------------|---------------------------|------------------|---------------------|----------|--------|-------------|-----------|-------------|-------------------|
| R9 R10 | | | RK73EB2B471J RK73EB2B102J | CHIP R 470 CHIP R 1.0K | J 1/8W J 1/8W | | | | | | | |
| S1 | 1 | | S70-0841-05 | TACT SWITCH | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | : | | | : | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | ŀ | | | | | | | | | E | | |
| | | | | | | | i | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | į | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

K1: KMD-71

M1: KMD-870R

E1: KMD-870R

 ${\underline{\smash{ \mathbb A}}}$ indicates safety critical components.

SPECIFICATIONS

| KMD-71 | KMD-870R | | | | | |
|---|--|--|--|--|--|--|
| FM tuner section | FM tuner section | | | | | |
| Frequency range (Frequency step) | Frequency range (Frequency step) | | | | | |
| 87.9MHz~107.9MHz (200kHz) | | | | | | |
| Channel space selection 50k/200kHz | Channel space selection50kHz fix | | | | | |
| Usable sensitivity (S/N=30dB) 9.3dBf (0.8μV/75Ω) | Usable sensitivity (S/N=26dB) $0.7\mu V/75\Omega$ | | | | | |
| Quieting sensitivity (S/N=50dB) 15.2dBf (1.6μV/75Ω) | Quieting sensitivity (S/N=46dB) | | | | | |
| Frequency response (±3.0dB)30Hz~15kHz | Frequency response (±3.0dB)30Hz~15kHz | | | | | |
| S/N (MONO) | S/N (MONO) | | | | | |
| Selectivity ≥ 80dB (±400kHz) | Selectivity (DIN) ≥ 80dB (±400kHz) | | | | | |
| Stereo separation (1kHz) | Stereo separation (1kHz) | | | | | |
| AM tuner section | MW tuner section | | | | | |
| Frequency range (Frequency step) | | | | | | |
| 530kHz~1700kHz (10kHz) | Frequency range (Frequency step) 531kHz~1611kHz (9kHz) | | | | | |
| Channel space selection | Channel space selection | | | | | |
| Usable sensitivity (S/N=20dB) | Usable sensitivity (S/N=20dB)25µV | | | | | |
| | LW tuner section | | | | | |
| MD section | Frequency range153kHz~281kHz | | | | | |
| Laser diode | Usable sensitivity (S/N=20dB) | | | | | |
| Digital filter (D/A) 8 times over sampling | , | | | | | |
| D/A converter 1 Bit | MD section | | | | | |
| Frequency response 20Hz~20kHz (±2dB) | Laser diode | | | | | |
| T.H.D 0.01% (1kHz) | Digital filter (D/A) 8 times over sampling | | | | | |
| S/N (1kHz) 90dB | D/A converter | | | | | |
| Dynamic range 90dB | Frequency response 20Hz~20kHz (±2dB) | | | | | |
| Channel separation 85dB | T.H.D 0.01% (1kHz) | | | | | |
| Spindle speed 400rpm~900rpm (CLV) | S/N (1kHz) | | | | | |
| Wow & Flutter Below measurable limit | Dynamic range 90dB | | | | | |
| | Channel separation | | | | | |
| Audio section | Spindle speed | | | | | |
| Preout level (mV) /Load 1800mV/10kΩ | Wow & Flutter Below measurable limit | | | | | |
| Preout impedance $\leq 600\Omega$ | Doing Moderation | | | | | |
| Maximum power | Audio section | | | | | |
| Rated power 22Wx4 (at less than 1%THD) | Preout level (mV) /Load | | | | | |
| Tone action | Preout impedance $\leq 600\Omega$ | | | | | |
| Bass | Maximum power | | | | | |
| Treble | Rated power | | | | | |
| | E type | | | | | |
| General | M type | | | | | |
| Operating voltage14.4V (11V~16V allowable) | Tone action | | | | | |
| Current consumption | Bass 100Hz±10dB | | | | | |
| Installation size (WxHxD) | Treble | | | | | |
| Weight | General | | | | | |
| - Total (Hong) | Operating voltage14.4V (11V~16V allowable) | | | | | |
| | Current consumption | | | | | |
| | Installation size (WxHxD) | | | | | |
| | 7-3/16x2-1/16x6-5/16 (inch) | | | | | |
| | 7-3/10X2-1/10X0-3/10 (IIICII) | | | | | |

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without no tice.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-8501 Japan

KENWOOD SERVICE CORPORATION P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC. 6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6, Plaza Chase, Cl. 47 y, Aquilino de la Guardia, Panama, Republic of Panama

KENWOOD ELECTRONICS BRASIL LTDA. Av. Moema, 170-17', Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020 Moema, São Paulo-SP-Brasilii

KENWOOD ELECTRONICS UK LIMITED Kenwood House, Dwight Road, Watford, Herts, WD1 8EB United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A. 13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V. Mechelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A. Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 49 9 074) 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

Weight 4.0lbs (1.8kg)

KENWOOD & LEE ELECTRONICS, LTD. Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD. 2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD. 1 Genting Lane #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD #4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Datul Ehsan,